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Motoki Ide

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Steven I. Weisburd
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP
1177 Avenue of Americas
41st floor
New York, NY 10036-2714

EXAMINER

HUYNH, THU V

ART UNIT

PAPER NUMBER

2178

DATE MAILED: 10/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/827,476

Applicant(s)

IDE ET AL.

Examiner

Thu V. Huynh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 September 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to communications: amendment file on 09/15/06 to application filed on 04/06/01, which has priority of provisional filed on 04/07/00.
2. Claim 1 is currently amended.
3. Claims 1-13 are pending in the case. Claims 1 and 7 are independent claims.
4. The rejections of claims 1-6 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, have been withdrawn as necessitated by the amendment.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

(b) This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. **Claims 1-2, 5, 7, 10, 13 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Colson et al., US 6,708,217 B1, filed 01/05/00, in view of Gupta et al., US 6,622,171 B2, filed 09/15/98.**

Regarding independent claim 1, Colson teaches:

- a display section (Colson, fig.2, client computer 204 with display area);

- a content obtainer for obtaining content data from a desired content server via a network in an unknown information description language (Colson, col.1, lines 35-47; col.7, lines 30-44; obtaining a document from a server using demultiplexer, wherein the document is able to be an HTML or XML content);
- a content-type discriminator for discriminating an information description language of the obtained content data from a plurality of predetermined content types (Colson, col.7, line 45 – col.8, line 15; determining an information description language of the document, such as “HTML text” from plurality of predetermined content types, such as content type “text/ascii” is ASCII text, “text/html” is HTML text, etc. using the demultiplexer); and
- a plurality of parsers corresponding to respective ones of the plurality of predetermined content types, wherein the obtained content data is parsed by a corresponding parser depending on a discrimination information description language thereof to produce displaying information (Colson, col.1, lines 35-47; col.7, line 47 – col.8, line 15; plurality of parsers, such as HTML, XML processors corresponding to respective ones of plurality of the predetermined content types are used to parse the document to produce display information);
- wherein the display section displays the obtained content based on the displaying information (Colson, col.1, lines 35-47, the document (HTML or XML) must be parsed to display the document).

Colson teaches demultiplexer in proxy or router host to determine the information description language of the document. However, Colson does not explicitly disclose the demultiplexer is included in the client computer.

Gupta teaches terminal device include a demultiplexer to distribute appropriate content to appropriate rendering components to render the content (Gupta, figure 3; col.7, line 62 – col.8, line 2; client computer 102 includes demultiplexer component 104).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined Gupta's teaching and Colson's teaching to include a demultiplexer in the client device, since the combination would have provide different options to implement the demultiplexer, such as demultiplexer may be "added to an existing proxy or router host", "implemented as stand-alone component" (Colson, col.7, lines 9-17), or incorporated into the client device (Gupta, figures 1-2, [0023]; Demultiplexer 160 in client device 102).

Regarding claim 2, which is dependent on claim 1. Colson teaches the plurality of predetermined content types are determined by respective ones of the information description languages having no compatibility with each other (Colson, col.1, lines 35-47; col.7, line 47 – col.8, line 15).

Regarding claim 5, which is dependent on claim 1, Colson teaches wherein the content-type discriminator discriminates a content type of the obtained content data by refereeing to a content-type indicating code included in a protocol header of the obtained content data (Colson,

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col.2, lines 4-57, col.8, lines 45-67; searching the boundary string followed by a “content-type:” entry in the header of the document).

Regarding independent claim 7, Colson teaches the steps of:

- a) obtaining content data from a desired content server via a network having an unknown information description language (Colson, col.1, lines 35-47; obtaining a document from a server, wherein the document is able to be an HTML or XML content);
- b) discriminating an information description language of the obtained content data from a plurality of predetermined content types (Colson, col.7, line 47 – col.8, line 15; determining an information description language of the document, such as “HTML text” from plurality of predetermined content types, such as content type “text/ascii” is ASCII text, “text/html” is HTML text, etc.);
- c) parsing the obtained content data depending on a discrimination result of the step (b) to produce displaying information (Colson, col.1, lines 41-47, col.9, lines 1-6; the content registry using the content type retrieved to send the content (document) to corresponding content renders capable of rendering that document); and
- d) displaying an obtained content based on the display information (Colson, col.1, lines 41-47, col.9, lines 1-6).

However, Colson does not explicitly disclose the demultiplexer is included in the client Computer.

Gupta teaches terminal device include a demultiplexer to distribute appropriate content to appropriate rendering components to render the content (Gupta, figures 1-2; [0023], [0030]-[0031]; client computer 102 includes display area 104 and demultiplexer 160).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined Gupta's teaching and Colson's teaching to include a demultiplexer in the client device, since the combination would have provide different options to implement the demultiplexer, such as demultiplexer may be "added to an existing proxy or router host", "implemented as stand-alone component" (Colson, col.7, lines 9-17), or incorporated into the client device (Gupta, figures 1-2, [0023]; Demultiplexer 160 in client device 102).

Regarding claim 10, which is dependent on claim 1, Colson teaches wherein said discriminating step comprises the steps of:

- b.1) storing a plurality of unique codes each indicating the plurality of predetermined content types (Colson, figures 3-4; col.7, line 47 – col.8, line 15; col.9, lines 11-12, lookup content type in mapping registry);
- b.2) checking a code arranged at a predetermined location or the obtained content data to determine whether the code is text data (Colson, fig.4, col.2, lines 4-57; col.8, lines 45-67; col.9, lines 11-12, searching a boundary string follow by a "Content-type:" entry to discriminate the content type of the document for "text/html" or "audio/wav");
- b.3) when it is determined that the code is not text data, searching the plurality of unique codes for a code arrange at a predetermined location of the obtained content data to

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discriminated the content type of the obtained content data (Colson, figures 3-4; col.7, line 47 – col.8, line 15; col.9, lines 11-12, lookup content type in mapping registry for a content type of the document in “content-type:” header); and the step (c) comprises the steps of:

- c.1) when it determined that the code is text data, parsing the obtained content data based on description of a display information (Colson, col.1, lines 35-47; col.7, line 47 – col.8, line 15; html browser is used to parse the document having “text/html” content type); and
- c.2) when it determined that the code is not text data, parsing the obtained content data based on the discriminated content type of the obtained content data (Colson, fig.3; col.7, line 47 – col.8, line 15; col.9, lines 17-19; if the document audio, sending the document to audio processor for process).

Regarding claim 13, which is dependent on claim 10, wherein the predetermined information description language is one of HTML (Hypertext Markup Language) and compact HTML that is a subset of the HTML (Colson, col.1, lines 35-47; col.7, line 47 – col.8, line 15).

6. Claim 3 remains rejected under 35 U.S. C. 103(a) as being unpatentable over Colson in view of Gupta as applied to claim 2 above and further in view of Halahmi, US 6,684,088 B1, filed 03/01/2000.

Regarding claim 3, which is dependent on claim 2, Colson teaches wherein the information description languages include HTML (Hypertext Markup Language) and XML (eXtensible Markup Language) (Colson, col.1, lines 35-47; col.7, line 47 – col.8, line 15).

However, Colson does not explicitly disclose the information description languages include WML (Wireless Markup Language).

Halahmi teaches wherein the information description language include HTML (Hypertext Markup Language) and WML (Wireless Markup Language) (Halahmi, col.8, lines 16-18 and 30-32; col.9, lines 1-13 and 43-60; and col.11, lines 1-11 and 21-25; portion server parses the header information to identify different content types, such as text, image, TIFF, HTML, video or WML).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined Halahmi's parsing method into Chu-Carroll to translate any document type including a WML type into a suitable document as Chu-Carroll disclosed in paragraphs 53, 71 and 140.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined Halahmi's WML content type into Colson's HTML and XML, since the combination would have provide many predetermined content types so that a corresponding browsers are used to understand, parse, and produce display information.

7. Claims 4, 6, 8-9, 12 remain rejected under 35 U.S. C. 103(a) as being unpatentable over Colson in view of Gupta as applied to claim 1 and 7 above and further in view of Chu-Carroll et al., US 2003/0212686 A1, provisional filed 03/17/2000

Regarding claim 4, which is dependent on claim 1, Colson does not explicitly teach wherein the content-type discriminator discriminates a content type of the obtained content data by refereeing to a code arranged at a predetermined location of the obtained content data.

Chu-Carroll teaches searching the plurality of unique codes for a code arranged at a predetermined location of the obtained content data to discriminate the content type of the obtained content data (Chu-Carroll, [0067]-[0068], for XML document type, finding a marker at the first few lines of the document or top-level tag to identify the document type).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined Chu-Carroll's teaching into Colson to identify a type of any document, such as HTML or XML, since the combination would have provides many techniques are used to identify the document type when either one of the techniques can not verify the document type.

Regarding claim 6, which is dependent on claim 1, Colson does not explicitly teaches the content-type discriminator discriminates a content type of the obtained content data by referring to a code arranged at a predetermined location of the obtained content data before referring to a content-type indicating code included in a protocol header of the obtained content data.

Chu-Carroll teaches wherein the content-type discriminator discriminates a content type of the obtained content data by refereeing to a code arranged at a predetermined location of the obtained content data (Chu-Carroll, [0067]-[0068], for XML document type, finding a marker at the first few lines of the document or top-level tag to identify the document type).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined Chu-Carroll's teaching into Colson to identify a type of any document, such as HTML or XML, since the combination would have provides many techniques are used to identify the document type when either one of the techniques can not verify the document type.

Regarding claim 8, which is dependent on claim 7, Colson teaches wherein the step(b) comprises the steps of:

- b.1) storing a plurality of unique codes each indicating the plurality of predetermined content types (Colson, figures 3-4; col.7, line 47 – col.8, line 15; col.9, lines 11-12, lookup content type in mapping registry);
- b.3) using header of the obtained content data to discriminate the content type of the obtained content data (Colson, fig.4, col.2, lines 4-57; col.8, lines 45-67; col.9, lines 11-12, searching a boundary string follow by a "Content-type:" entry to discriminate the content type of the document).

However, Colson does not explicitly disclose searching the plurality of unique codes for a code arranged at a predetermined location of the obtained content data to discriminate the content type of the obtained content data.

Chu-Carroll teaches searching the plurality of unique codes for a code arranged at a predetermined location of the obtained content data to discriminate the content type of the obtained content data (Chu-Carroll, [0067]-[0068], for XML document type, finding a marker at the first few lines of the document or top-level tag to identify the document type).

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It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined Chu-Carroll's teaching into Colson to identify a type of any document, such as HTML or XML, since the combination would have provides many techniques are used to identify the document type when either one of the techniques can not verify the document type.

Regarding claim 9, which is dependent on claim 7, Colson teaches wherein said discriminating step comprises the steps of:

- b.1) storing a plurality of unique codes each indicating the plurality of predetermined content types storing a plurality of unique codes each indicating the plurality of predetermined content types (Colson, figures 3-4; col.7, line 47 – col.8, line 15; col.9, lines 11-12, lookup content type in mapping registry);
- b.2) checking a protocol header of the obtained content data to determine whether the obtained content data is described in a predetermined information description language (Colson, fig.4, col.2, lines 4-57; col.8, lines 45-67; col.9, lines 11-12, searching a boundary string follow by a "Content-type:" entry to discriminate the content type of the document for XML or HTML); and

the step (c) comprises the steps of:

- c.1) when it is determined that the obtained content data is described in the predetermined information description language, parsing the obtained content data based on description or the predetermined information description language to produce the displaying information (Colson, col.1,

lines 35-47; col.7, line 47 – col.8, line 15; col.9, lines 1-12; plurality of parsers, such as HTML, XML processors corresponding to respective ones of plurality of the predetermined content types are used to parse the document to produce display information); and

- c.2) when it is determined that the obtained content data is not described in the predetermined information description language, parsing the obtained content data based on the content data type of obtained content data (Colson, col.7, line 47 – col.8, line 15; if the document audio, sending the document to audio processor for process).

However, Colson does not explicitly disclose searching the plurality of unique codes for a code arranged at a predetermined location of the obtained content data to discriminate the content type of the obtained content data.

Chu-Carroll teaches searching the plurality of unique codes for a code arranged at a predetermined location of the obtained content data to discriminate the content type of the obtained content data (Chu-Carroll, [0067]-[0068], for XML document type, finding a marker at the first few lines of the document or top-level tag to identify the document type).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined Chu-Carroll's teaching into Colson to identify a type of any document, such as HTML or XML, since the combination would have provides many techniques are used to identify the document type when either one of the techniques can not verify the document type.

Regarding claim 12, which is dependent on claim 9, Colson teaches wherein the predetermined information description language is one of HTML (Hypertext Markup Language) and compact HTML that is a subset of the HTML (Colson, col.1, lines 35-47; col.7, line 47 – col.8, line 15).

8. Claim 11 remains rejected under 35 U.S. C. 103(a) as being unpatentable over Colson in view of Gupta as applied to claim 7, and further in view of Gillon et al., US 5,838,927, filed 11/1996.

Regarding claim 11, which is dependent on claim 7, Colson teaches wherein the said discriminating step comprises the steps of:

- b.1) storing a plurality of content types used in predetermined communication protocol, each of the content type indicating the plurality of predetermined content types (Colson, figures 3-4; col.7, line 47 – col.8, line 15; col.9, lines 11-12, lookup content type in mapping registry);
- b.2) searching the plurality of content types of the obtained content data to discriminate the content type of the obtained content data (Colson, figures 3-4, col.2, lines 4-57; col.8, lines 45-67; col.9, lines 11-12, searching a string follow by a “Content-type:” entry, such as “text/html”, “image/gif” or “audio/wav” to discriminate the content type of the document).

However, Colson does not explicitly disclose using file name extension to discriminate the content type of the obtained content data.

Gillon teaches using content type header or file extension to determine data type (Gillon, fig.6, box 604) includes the steps of

- a) storing a plurality of file name extensions used in predetermined communication protocol, each of the file name extensions indicating the plurality of predetermined content types (Gillon, col.7, lines 3-9; identifying the content type by matching the file extension of the obtained file with predetermined types. This inherently discloses that the predetermined types must be stored in order matching process); and
- b) searching the plurality of file name extensions for a file name extension of the obtained content data to discriminate the content type of the obtained content data (Gillon, col.5, lines 38-67 and col.7, lines 3-9; identifying the content type by matching the file extension of the obtained file with predetermine types. This inherently discloses searching process must be occurred in order matching the file extension of the obtained file with predetermine types).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined Gillon's teaching into Colson to identify a type of a document, since the combination would have provided many techniques are used to identify the document type when either one of the techniques can not verify the document type.

Response to Arguments

9. Applicant's arguments filed on 09/15/06 have been fully considered but they are not persuasive.

Applicants argue with respect to claims 1 and 7 that Colson does not teach the feature of “the display section displays the obtained content based on the displaying information”; “the system in Colson is unable to display all of the various content type in a single device” and “addition of multiplexer fails to cure the deficiency in Colson noted above”

This is not persuasive. Colson teaches obtained content of the document (HTML or XML) must be parsed to produce displaying information to display on a display device (Colson, col.1, lines 35-47). Colson teaches demultiplexer in proxy or router host to determine the information description language from plurality of predetermined content types of the document. However, Colson does not explicitly disclose the demultiplexer is included in the client computer.

Gupta teaches terminal device include a demultiplexer to distribute appropriate content to appropriate rendering components to render the content (Gupta, figure 3; col.7, line 62 – col.8, line 2; client computer 102 includes demultiplexer component 104).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have combined Gupta’s teaching and Colson’s teaching to include a demultiplexer in the client device, since the combination would have provide different options to implement the demultiplexer, such as demultiplexer may be “added to an existing proxy or router host”, “implemented as stand-alone component” (Colson, col.7, lines 9-17), or incorporated into the client device (single device) (Gupta, figures 1-2, [0023]; Demultiplexer 160 in client device 102).

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time

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policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu V. Huynh whose telephone number is (571) 272-4126. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen S. Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Thu V. Huynh
September 25, 2006



STEPHEN HONG
SUPERVISORY PATENT EXAMINER